

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P244152

Luminaire Tested: **LSR8B10D010 EC8B10930 8LBSWOLI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244152
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1801-521-53)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B10D010 EC8B10930 8LBSW0LI
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 3000 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 995.5 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.2 / 1.11
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

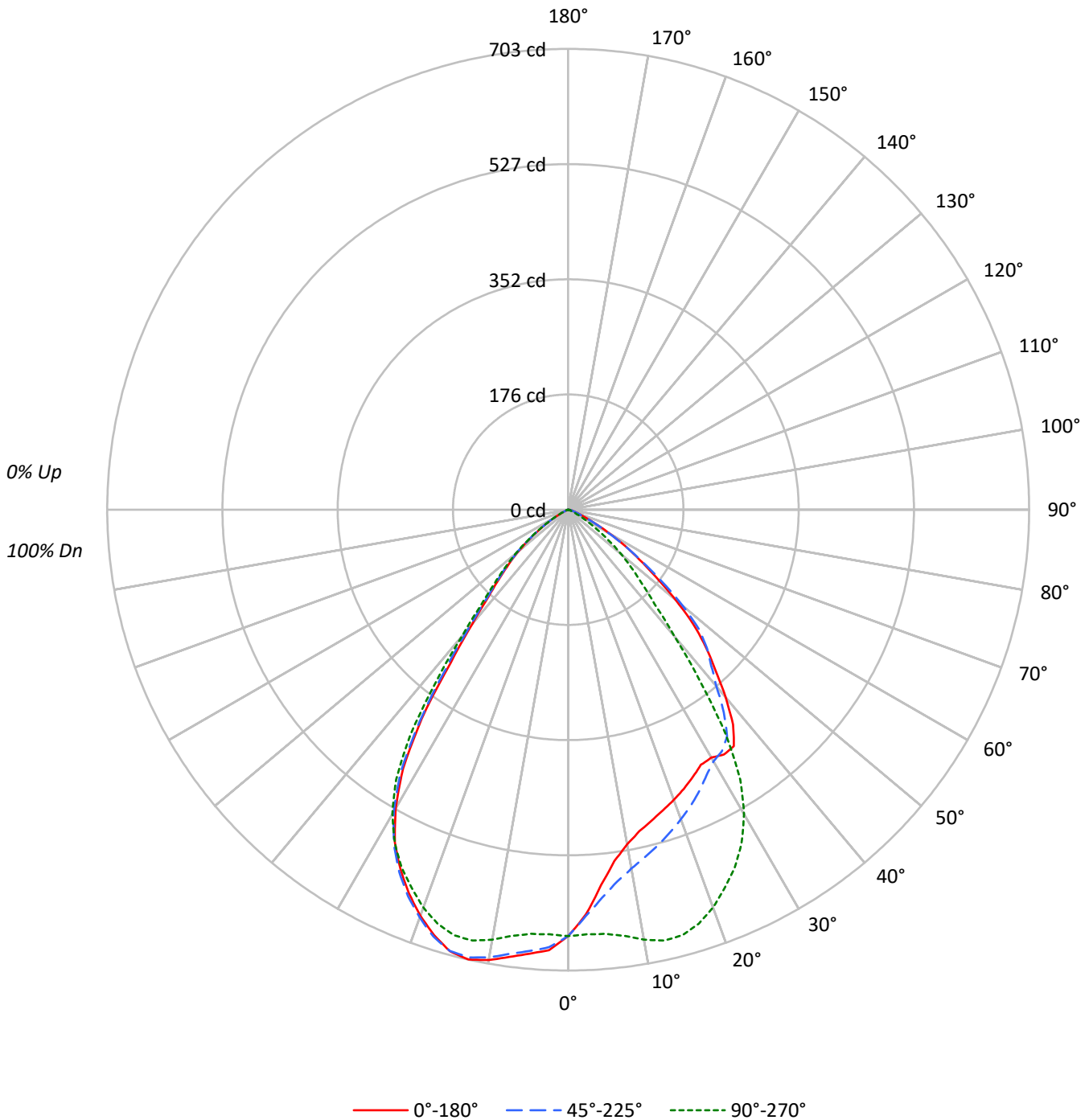
Input Watts (W): 10.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102	102	102	100
1	112	109	106	104	110	107	104	102	103	101	99		99	97	96		96	94	93	91
2	105	99	95	91	103	98	93	90	94	91	88		91	88	86		88	86	84	82
3	99	91	85	80	96	89	84	79	87	82	78		84	80	77		82	78	76	74
4	92	83	76	71	90	82	76	71	80	74	70		77	73	69		76	72	68	67
5	86	76	69	64	84	75	69	64	73	68	63		72	66	63		70	65	62	60
6	81	70	63	58	79	69	63	58	68	62	57		66	61	57		65	60	56	55
7	76	65	58	53	74	64	57	52	63	57	52		61	56	52		60	55	52	50
8	71	60	53	48	70	59	53	48	58	52	48		57	52	48		56	51	47	46
9	67	56	49	44	66	55	49	44	54	48	44		53	48	44		52	47	44	42
10	63	52	45	41	62	52	45	41	51	45	41		50	44	40		49	44	40	39

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	Luminaire represents a point source (luminous area is zero).		
5°	No luminance values can be calculated.		
10°			
15°			
20°			
25°			
30°			
35°			
40°			
45°			
50°			
55°			
60°			
65°			
70°			
75°			
80°			
85°			



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	6.1
10°-20°	175.1	17.6
20°-30°	254.1	25.5
30°-40°	250.3	25.1
40°-50°	156.9	15.8
50°-60°	75.7	7.6
60°-70°	18.3	1.8
70°-80°	3.7	0.4
80°-90°	0.9	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	489.8	49.2
0°-40°	740.0	74.3
0°-60°	972.6	97.7
0°-90°	995.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	995.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	650	650	650	650	650	
5°	575	594	650	676	680	53
15°	491	530	672	697	697	139
25°	450	473	601	610	605	208
35°	440	422	420	396	389	266
45°	297	299	159	152	148	227
55°	132	136	58	57	54	122
65°	31	31	8	7	6	35
75°	8	6	2	1	1	8
85°	2	2	0	0	0	2
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	618.2	614.3	606.9	615.8	615.8	610.8	620.7	614.8	619.6	627.1	620.4
5°	574.7	571.5	565.4	574.7	576.0	571.4	583.4	578.9	585.8	595.1	594.2
7.5°	540.4	536.3	530.7	540.4	542.3	539.2	550.7	548.6	557.9	569.8	571.9
10°	518.0	513.8	508.8	517.7	519.1	517.0	528.7	527.4	536.5	550.3	555.8
12.5°	502.2	498.6	493.1	502.5	504.0	501.1	512.1	511.5	520.9	535.5	542.3
15°	491.1	486.7	481.8	489.9	491.9	488.6	499.1	498.1	507.6	521.9	529.7
17.5°	480.7	476.8	471.6	479.1	481.1	477.8	488.0	486.3	494.5	508.1	516.0
20°	470.9	466.7	462.0	469.7	470.9	467.0	477.2	475.0	482.4	495.0	502.7
22.5°	460.8	456.4	451.5	459.2	460.3	456.4	465.8	463.2	470.0	481.5	488.5
25°	449.7	445.6	440.8	447.8	448.8	444.6	454.5	451.2	457.3	467.3	473.2
27.5°	438.6	434.7	429.3	436.5	437.1	432.9	442.0	437.5	442.6	451.8	456.7
30°	436.7	432.3	426.8	432.6	432.8	427.5	436.1	430.8	433.5	440.3	443.2
32.5°	442.7	438.3	432.6	437.4	436.9	431.1	439.3	432.8	433.6	437.2	436.5
35°	440.3	435.1	428.3	433.5	433.5	426.4	434.7	427.0	426.1	426.7	422.4
37.5°	413.2	409.1	402.8	407.7	407.1	401.9	408.2	401.9	399.0	397.7	390.1
40°	373.2	368.2	363.4	368.7	369.3	363.7	371.8	364.7	363.8	360.4	351.3
42.5°	332.7	330.9	326.3	330.8	333.2	328.5	335.2	331.8	332.4	331.5	323.0
45°	297.3	294.4	291.0	296.1	297.6	295.3	302.1	300.1	302.1	306.4	299.3
47.5°	259.2	256.3	252.6	258.1	260.7	256.3	262.1	261.4	264.4	271.8	271.2
50°	213.2	211.2	210.5	211.2	212.9	210.9	214.9	215.1	217.1	227.2	227.9
52.5°	168.8	168.3	165.9	168.2	168.2	164.9	168.9	167.1	169.2	176.0	180.5
55°	132.1	131.6	130.0	132.1	129.8	128.7	129.8	128.0	126.4	131.7	136.3
57.5°	102.9	101.1	99.3	100.1	100.0	97.4	98.8	96.5	95.4	97.2	101.3
60°	73.3	72.8	71.1	72.0	72.6	70.7	72.1	71.1	69.1	70.5	70.7
62.5°	48.7	49.0	48.0	48.2	47.6	47.3	48.2	48.7	48.2	47.5	47.6
65°	30.9	30.7	30.6	30.7	31.1	30.4	30.9	31.3	30.7	30.7	30.6
67.5°	20.5	20.0	19.5	19.8	20.2	19.6	20.2	20.0	20.2	20.0	19.5
70°	13.8	13.7	13.5	13.7	13.7	13.3	13.7	13.5	13.7	13.5	13.0
72.5°	10.1	10.1	9.9	10.1	10.1	9.8	9.9	9.5	9.8	9.5	9.2
75°	7.5	7.5	7.4	7.5	7.4	7.2	7.4	7.2	6.8	6.8	6.5
77.5°	5.5	5.5	5.5	5.5	5.5	5.3	5.3	5.2	4.9	4.8	4.8
80°	4.1	3.9	3.9	3.9	3.9	3.8	3.9	3.8	3.6	3.4	3.3
82.5°	2.9	3.0	2.9	2.9	2.9	2.7	2.9	2.7	2.7	2.6	2.2
85°	2.2	2.2	2.2	2.2	2.2	2.0	2.0	2.0	1.9	1.9	1.7
87.5°	1.2	1.2	1.2	1.3	1.2	1.2	1.2	1.0	1.0	0.9	0.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	629.3	630.1	628.3	631.1	642.4	633.4	637.2	638.3	646.9	648.4	647.4
5°	605.3	609.2	611.5	618.0	630.5	623.9	630.7	634.9	645.8	649.5	650.3
7.5°	586.6	594.5	600.3	610.8	625.5	620.6	630.7	637.6	651.0	655.6	657.8
10°	572.6	584.5	594.6	609.2	625.7	622.5	635.6	645.5	660.4	665.9	668.6
12.5°	562.0	576.5	590.0	608.5	626.4	624.8	640.8	652.0	667.8	673.2	676.4
15°	550.3	567.1	582.8	603.4	622.8	622.5	639.5	651.5	667.6	672.2	675.3
17.5°	536.5	554.4	571.7	594.1	613.2	613.5	630.8	642.7	658.4	662.1	664.2
20°	522.5	540.3	557.5	580.6	599.4	599.8	616.8	627.8	642.8	645.8	646.4
22.5°	507.6	524.2	541.4	564.3	582.5	582.8	599.5	609.8	622.6	624.2	625.5
25°	490.8	506.9	523.2	545.9	563.2	564.2	579.4	588.4	600.3	601.4	602.0
27.5°	473.2	486.4	502.0	521.5	538.9	538.2	552.5	562.9	573.4	572.7	572.6
30°	455.4	466.4	476.0	494.8	507.6	508.1	521.6	526.6	537.7	536.3	536.2
32.5°	442.9	445.8	448.4	457.9	470.0	465.8	475.0	481.1	488.9	488.3	488.5
35°	419.9	414.7	407.0	408.4	415.7	409.1	414.0	413.9	421.7	419.8	422.1
37.5°	380.8	365.8	348.7	339.0	340.3	332.0	330.2	334.4	337.1	331.8	333.7
40°	339.2	316.9	290.3	268.0	266.9	256.5	254.6	250.4	255.8	251.3	252.7
42.5°	308.4	279.0	244.0	217.0	211.2	202.5	197.3	196.6	198.2	195.2	194.3
45°	284.8	253.6	213.4	182.5	176.0	166.6	161.4	159.6	159.7	158.7	157.8
47.5°	257.2	225.7	185.1	153.5	146.1	137.2	132.1	130.9	131.6	130.1	129.1
50°	218.9	190.7	153.6	124.8	118.3	111.8	107.6	106.5	106.3	105.3	104.6
52.5°	177.7	154.2	122.2	98.1	92.3	86.0	83.1	81.5	81.7	80.6	79.6
55°	137.5	123.0	94.6	74.2	68.8	63.9	61.2	59.3	58.7	57.7	57.3
57.5°	102.3	92.6	71.0	53.5	50.4	45.6	42.9	40.7	40.4	39.8	39.7
60°	71.7	64.8	49.9	38.1	34.5	31.6	28.9	26.7	25.7	25.4	25.0
62.5°	46.5	42.1	32.8	25.4	22.8	20.6	17.9	16.4	15.7	15.0	15.2
65°	28.9	25.7	20.5	16.4	14.9	13.3	11.3	9.9	9.2	8.5	8.7
67.5°	17.9	16.0	13.0	10.6	9.5	8.4	6.8	5.8	5.3	4.8	4.5
70°	12.1	10.4	8.9	7.5	6.8	5.9	4.9	4.1	3.8	3.4	3.0
72.5°	8.5	7.7	6.5	5.6	5.2	4.5	3.8	3.3	2.9	2.6	2.2
75°	6.2	5.5	4.8	4.1	3.8	3.4	2.9	2.6	2.2	1.9	1.6
77.5°	4.5	3.9	3.4	3.0	2.9	2.4	2.0	1.9	1.7	1.3	1.0
80°	3.0	2.7	2.2	2.0	2.0	1.7	1.6	1.3	1.2	0.9	0.7
82.5°	2.0	1.9	1.7	1.6	1.3	1.2	1.2	0.9	0.7	0.6	0.3
85°	1.6	1.3	1.2	1.0	1.0	0.9	0.7	0.6	0.6	0.3	0.2
87.5°	0.9	0.9	0.7	0.6	0.6	0.3	0.3	0.2	0.2	0.2	0.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	656.1	656.7	659.5	657.4	663.0	667.0	665.0	669.6	668.1	667.8	673.0
5°	660.6	661.7	665.6	663.6	669.8	674.3	672.2	677.3	675.7	675.4	680.9
7.5°	669.1	670.2	673.7	672.0	678.5	682.5	679.9	685.5	683.5	683.2	688.6
10°	679.9	681.6	684.5	682.8	688.7	692.2	689.6	695.0	693.2	692.3	698.2
12.5°	687.8	689.1	692.0	690.6	696.5	699.1	696.8	702.1	699.7	699.1	704.1
15°	686.1	687.2	689.6	688.4	693.9	696.3	693.3	699.2	696.8	695.5	700.1
17.5°	674.1	674.7	676.4	675.3	681.0	682.6	679.3	685.2	682.9	680.6	685.0
20°	656.5	656.1	657.1	656.7	661.4	662.3	660.3	664.5	662.0	660.6	663.1
22.5°	634.6	634.3	634.9	633.6	638.3	638.9	635.8	640.9	638.3	635.8	640.1
25°	610.3	608.5	608.1	608.6	611.8	612.4	609.2	612.9	609.6	607.6	611.7
27.5°	580.5	578.0	577.5	578.0	581.2	578.9	576.2	578.9	575.6	573.7	576.3
30°	543.5	540.1	538.5	537.5	541.0	540.1	533.8	536.8	531.7	529.0	530.9
32.5°	493.8	491.9	487.9	485.4	488.6	482.1	478.2	478.2	476.2	471.6	472.6
35°	424.7	421.8	418.1	416.0	416.6	407.8	401.3	402.8	395.9	394.7	395.2
37.5°	337.4	332.7	331.3	327.0	328.0	320.4	311.5	311.6	308.1	304.4	303.1
40°	253.6	252.7	251.3	247.7	249.1	240.8	237.3	237.5	235.1	232.4	233.7
42.5°	196.0	193.3	192.4	191.2	191.6	190.1	185.7	186.2	184.2	183.5	182.8
45°	159.3	156.4	154.2	155.4	155.4	153.8	152.1	153.1	152.1	150.7	151.3
47.5°	131.3	128.5	127.5	127.3	128.5	127.5	125.8	126.1	125.9	125.4	125.1
50°	104.7	104.0	103.2	102.7	103.2	102.9	101.3	102.1	102.7	101.0	101.5
52.5°	79.8	79.8	79.6	78.5	79.5	78.5	78.2	78.6	78.1	77.3	77.2
55°	58.4	58.0	57.1	56.9	57.3	56.9	56.6	56.7	57.1	55.4	55.4
57.5°	40.0	39.7	39.1	39.1	39.8	39.0	38.5	39.1	38.5	37.8	37.8
60°	25.7	25.4	25.0	25.0	25.0	24.8	24.2	24.4	24.8	23.8	23.9
62.5°	15.4	14.9	14.7	14.6	14.7	14.6	14.6	14.3	14.2	14.2	13.7
65°	8.4	8.1	7.7	7.8	7.8	7.7	7.7	7.7	7.4	7.2	7.0
67.5°	4.3	3.9	3.9	3.8	3.8	3.8	3.8	3.6	3.6	3.6	3.4
70°	2.7	2.6	2.4	2.4	2.4	2.2	2.2	2.2	2.2	2.2	2.0
72.5°	1.9	1.7	1.6	1.6	1.6	1.3	1.3	1.3	1.3	1.2	1.2
75°	1.3	1.2	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.9	0.7	0.7	0.7	0.7	0.6	0.6	0.6	0.6	0.6	0.3
80°	0.6	0.6	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
82.5°	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0
85°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.0	0.0	0.0	0.0
87.5°	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	650.3	650.3	650.3	650.3	650.3	650.3	650.3	650.3
2.5°	671.1	669.8	670.7	677.0	674.3	673.4	666.2	672.5
5°	679.2	678.2	678.2	685.4	682.1	681.5	674.4	679.9
7.5°	686.7	685.7	685.8	693.2	690.6	689.6	682.6	688.1
10°	696.5	695.8	695.9	703.0	700.2	699.2	692.0	697.6
12.5°	702.2	701.2	701.2	708.7	705.7	704.1	697.3	702.8
15°	697.8	696.3	696.3	703.8	700.4	698.2	692.2	697.3
17.5°	682.6	681.0	681.0	687.5	685.0	681.8	675.6	680.3
20°	661.4	659.5	659.0	666.5	663.0	660.0	654.6	659.1
22.5°	637.5	636.6	635.0	642.7	639.4	636.3	630.5	634.0
25°	608.8	607.5	605.9	613.2	609.9	606.9	602.3	605.2
27.5°	573.1	573.3	572.4	578.2	575.0	573.3	567.6	572.4
30°	529.9	528.0	527.3	534.2	531.0	528.8	521.8	526.4
32.5°	473.5	470.7	467.1	474.9	469.6	467.7	461.6	468.4
35°	391.5	390.6	387.3	393.8	390.9	387.5	383.7	389.4
37.5°	302.6	303.2	302.9	304.7	302.9	300.8	296.6	294.6
40°	231.0	229.2	227.9	231.0	227.5	227.5	225.0	227.6
42.5°	181.2	180.5	182.2	182.8	180.8	180.5	180.1	179.9
45°	149.5	149.5	149.9	150.6	149.9	149.5	148.5	147.7
47.5°	123.2	123.9	123.2	125.4	124.2	123.9	121.9	122.6
50°	99.8	99.0	99.8	100.4	100.7	99.7	98.5	99.1
52.5°	77.3	76.0	75.7	76.7	76.0	76.0	75.3	75.2
55°	54.5	55.0	54.1	55.0	54.7	54.1	53.7	54.4
57.5°	36.9	37.1	36.8	37.2	36.4	36.5	36.4	36.2
60°	23.9	23.2	23.2	23.8	22.9	22.9	22.8	22.8
62.5°	13.7	13.5	13.5	13.3	13.1	13.1	13.1	12.8
65°	7.0	6.8	6.6	6.6	6.6	6.6	6.5	6.5
67.5°	3.4	3.3	3.3	3.4	3.3	3.3	3.3	3.3
70°	2.0	2.0	1.9	2.0	1.9	1.9	1.9	1.9
72.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
75°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
77.5°	0.6	0.3	0.3	0.3	0.3	0.3	0.3	0.3
80°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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